Technology Price Estimates for 21st Century Energy Plan

			$/kW				$/MWh	Design Net Plant Heat Rate
Technology	Cost Base Source	Size	Base	Overnight Capital (2006 $)	Overnight Capital (2006 $)	Fixed O&M (2006$)	Var. O&M (2006$)	BTU/kWh
Cost adjustment			**Base Cost from 2003 $**	**3% inflation from 2003 $**	**10% inflation adder included for each technology**	**3% inflation from 2003 $**	**3% inflation from 2003 $**	
Pulverized Coal								
Sub-critical	**OEC**	500	1,230	1,344	1,478	44.26	1.86	9,496
Supercritical	**OEC**	500	1,290	1,410	1,551	44.91	1.75	8,864
Ultra Super Critical	**EPA**	500			1,675	47.16	1.84	8,000
Fluidized Bed	**OEC**	300	1,290	1,480	1,628	46.11	4.37	9,996
IGCC*	**OEC w/spare**	550	1,350	1,623	1,785	61.30	0.98	9,000
IGCC - PRB Fuel	**add 12% of IGCC**	550	1,512	1,817	1,999	61.30	0.98	10,080
Nuclear	**EIA**	1000	1,957	2,138	2,352	69.93	0.55	10,400
Combined Cycle	**OEC**	500	440	481	529	5.57	2.19	7,200
Combustion Turbine	**Mirant / OEC**	160	375	386	425	2.19	3.82	10,450

Technology Construction Relative Costs

Sub-critical PC	1,344	100%
Supercritical PC	1,410	105%
Fluidized Bed	1,480	110%
IGCC	1,623	121%
IGCC - PRB Fuel	1,817	135%
Nuclear	2,138	159%
Combined Cycle	481	36%
Combustion Turbine	386	29%

Due to multiple sources of base data the EIA cost spread was maintained and shown above. IGCC was adjusted by 10% to keep relative costs consistent with EIA data. Fluidized bed was adjusted by 5%.

Sources

OEC - Opportunities to Expedite the Construction of New Coal-Based power Plants (National Coal Council Report)

EIA Annual Energy Outlook 2005 and 2006

EPA - Coal Based Technology Report (EPA-430/R-06/006) July 2006

*IGCC has a 10% increase

*Fluidized bed 5% increase

The overnight construction cost was further adjusted when modeled by Strategist:

AFUDC added based on years of construction

Total Revenue requirements required for Strategist input is developed which includes insurance, property taxes and return.

A transmission inter-connect fee based on 5% of the capital investment for a generic coal unit ($74.49/kw) is added to all future generation units.